IN THE CLAIMS

Please amend the claims as indicated by the revision status and revisions marks:

1. (CURRENTLY AMENDED) A method of controlling a DC feed from a subscriber loop interface circuit (SLIC), comprising the steps of:

switching from a normal mode DC feed following a first characteristic curve to a modified mode DC feed following a second characteristic curve when $V_{M} \le V_{THRESHI}$, wherein V_{M} is a subscriber loop voltage; and

switching from the modified mode to the normal mode when $V_{M} \ge V_{THRESH2}$, wherein $V_{THRESH2}$, wherein $V_{THRESH2}$, wherein the switching from the normal mode to the modified mode and the switching from the modified mode to the normal mode occur at distinct loop currents.

- 2. (ORIGINAL) The method of claim 1 wherein the first characteristic curve is linear, wherein the first characteristic curve is defined by an open circuit voltage, $V_{\rm OC}$, and a slope corresponding to a pre-determined impedance.
- 3. (ORIGINAL) The method of claim 1 wherein the first characteristic curve is linear, wherein the second characteristic curve is defined by a target open circuit voltage, $V_{\text{OC TARGET}}$, and a slope corresponding to a pre-determined impedance.
- 4. (ORIGINAL) The method of claim 1 wherein the first and second characteristic curves are linear, wherein the first characteristic curve is defined by an open circuit voltage, $V_{\rm OC}$, and a pre-determined slope, wherein the second characteristic curve is defined by a target open circuit voltage, $V_{\rm OC_TARGET}$, and the same pre-determined slope corresponding to a pre-determined impedance.
- 5. (ORIGINAL) The method of claim 4 wherein the pre-determined impedance is approximately 320Ω .

Docket No: 75622.P0048 Application No: 09/977,875 6. (CURRENTLY AMENDED) A subscriber loop interface circuit apparatus comprising:

control circuitry for controlling a subscriber loop DC feed; and a plurality of programmable registers storing values defining a first characteristic curve and a second characteristic curve, wherein the control circuitry switches from a normal mode DC feed following a first characteristic curve to a modified mode DC feed following a second characteristic curve when $V_{M} \le V_{THRESH1}$, wherein V_{M} is a subscriber loop voltage, wherein the control circuitry switches from the modified mode to the normal mode when $V_{M} \ge V_{THRESH2}$, wherein $V_{THRESH1} < V_{THRESH2}$, wherein the switching from the normal mode to the modified mode and the switching from the modified mode to the normal mode occur at distinct loop currents.

- 7. (ORIGINAL) The apparatus of claim 6 further comprising a digital signal processor.
- 8. (ORIGINAL) The apparatus of claim 6, wherein one of the plurality of programmable registers stores an open circuit voltage value, wherein the open circuit voltage value in conjunction with a pre-determined slope defines a linear first characteristic curve.
- 9. (CURRENTLY AMENDED) The apparatus of claim 6, wherein one of the plurality of programmable registers stores a value enabling computation of a target open circuit voltage value, wherein the target open circuit voltage value in conjunction with a pre-determined slope defined defines a linear second characteristic curve.
- 10. (CURRENTLY AMENDED) The apparatus of claim 9 wherein the plurality of registers store stores an open circuit voltage value (V_{OC}), a first relative threshold (V_{THL}), a second relative threshold (V_{THH}), and a relative target open circuit

Docket No: 75622.P0048 Application No: 09/977,875 voltage (V_{OC_DELTA}), wherein $V_{THRESH1} = V_{OC} + V_{THL}$, $V_{THRESH2} = V_{OC} + V_{THH}$, and the target open circuit voltage = V_{OC_DELTA} .

- 11. (ORIGINAL) The apparatus of claim 6 wherein the first and second characteristic curves are linear, wherein the first characteristic curve is defined by an open circuit voltage, $V_{\rm OC}$, and a pre-determined slope, wherein the second characteristic curve is defined by a target open circuit voltage, $V_{\rm OC_TARGET}$, and the same pre-determined slope corresponding to a pre-determined impedance.
- 12. (ORIGINAL) The apparatus of claim 11 wherein the pre-determined impedance is approximately 320Ω .
- 13. (NEW) A method of controlling a DC feed from a subscriber loop interface circuit (SLIC), comprising the steps of:

switching from a normal mode DC feed following a first characteristic curve to a modified mode DC feed following a second characteristic curve when $I_L \ge I_{THL}$, wherein I_L is a subscriber loop current; and

switching from the modified mode to the normal mode when $I_L \le I_{THH}$, wherein I_{THH} and I_{THL} are distinct.

- 14. (NEW) The method of claim 13 wherein the first characteristic curve is linear, wherein the first characteristic curve is defined by an open circuit voltage, $V_{\rm OC}$, and a slope corresponding to a pre-determined impedance.
- 15. (NEW) The method of claim 14 wherein the pre-determined impedance is approximately 320Ω .
- 16. (NEW) The method of claim 13 wherein the first characteristic curve is linear, wherein the second characteristic curve is defined by a target open circuit voltage, $V_{\text{OC_TARGET}}$, and a slope corresponding to a pre-determined impedance.

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